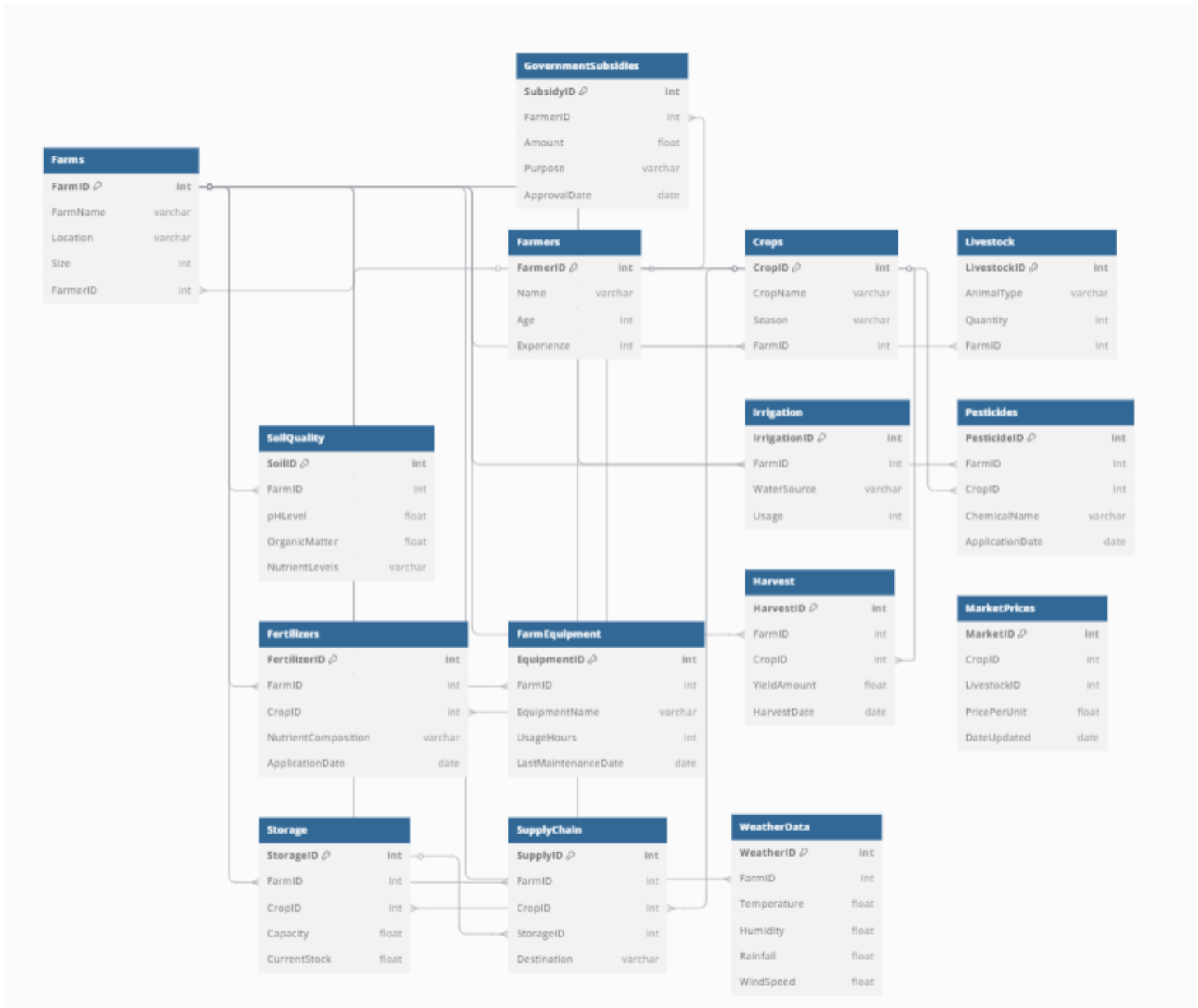# Agriculture Data

Figure: Agriculture ERD

Entities and Relationships

Farms

- FarmID (PK)
- FarmName
- Location
- Size (Acres)
- FarmerID (FK → Farmers.FarmerID)

Farmers

- FarmerID (PK)
- Name
- Age
- Experience (Years)
- FarmID (FK → Farms.FarmID)

Crops

- CropID (PK)
- CropName
- Season
- FarmID (FK → Farms.FarmID)

Livestock

- LivestockID (PK)
- AnimalType
- Quantity
- FarmID (FK → Farms.FarmID)

SoilQuality

- SoilID (PK)
- FarmID (FK → Farms.FarmID)
- pHLevel
- OrganicMatter
- NutrientLevels

WeatherData

- WeatherID (PK)
- FarmID (FK → Farms.FarmID)
- Temperature
- Humidity
- Rainfall
- WindSpeed

Irrigation

- IrrigationID (PK)
- FarmID (FK → Farms.FarmID)
- WaterSource
- Usage (Liters per Day)

Pesticides

- PesticideID (PK)
- FarmID (FK → Farms.FarmID)
- CropID (FK → Crops.CropID)
- ChemicalName

- ApplicationDate

Fertilizers

- FertilizerID (PK)
- FarmID (FK → Farms.FarmID)
- CropID (FK → Crops.CropID)
- NutrientComposition
- ApplicationDate

FarmEquipment

- EquipmentID (PK)
- FarmID (FK → Farms.FarmID)
- EquipmentName
- UsageHours
- LastMaintenanceDate

Harvest

- HarvestID (PK)
- FarmID (FK → Farms.FarmID)
- CropID (FK → Crops.CropID)
- YieldAmount (Tons)
- HarvestDate

MarketPrices

- MarketID (PK)
- CropID (FK → Crops.CropID)
- LivestockID (FK → Livestock.LivestockID)
- PricePerUnit
- DateUpdated

Storage

- StorageID (PK)
- FarmID (FK → Farms.FarmID)
- CropID (FK → Crops.CropID)
- Capacity (Tons)
- CurrentStock

SupplyChain

- SupplyID (PK)
- FarmID (FK → Farms.FarmID)
- CropID (FK → Crops.CropID)
- StorageID (FK → Storage.StorageID)
- Destination

GovernmentSubsidies

- SubsidyID (PK)
- FarmerID (FK → Farmers.FarmerID)
- Amount
- Purpose
- ApprovalDate